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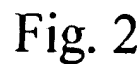
Fig. 1

FIG. 3

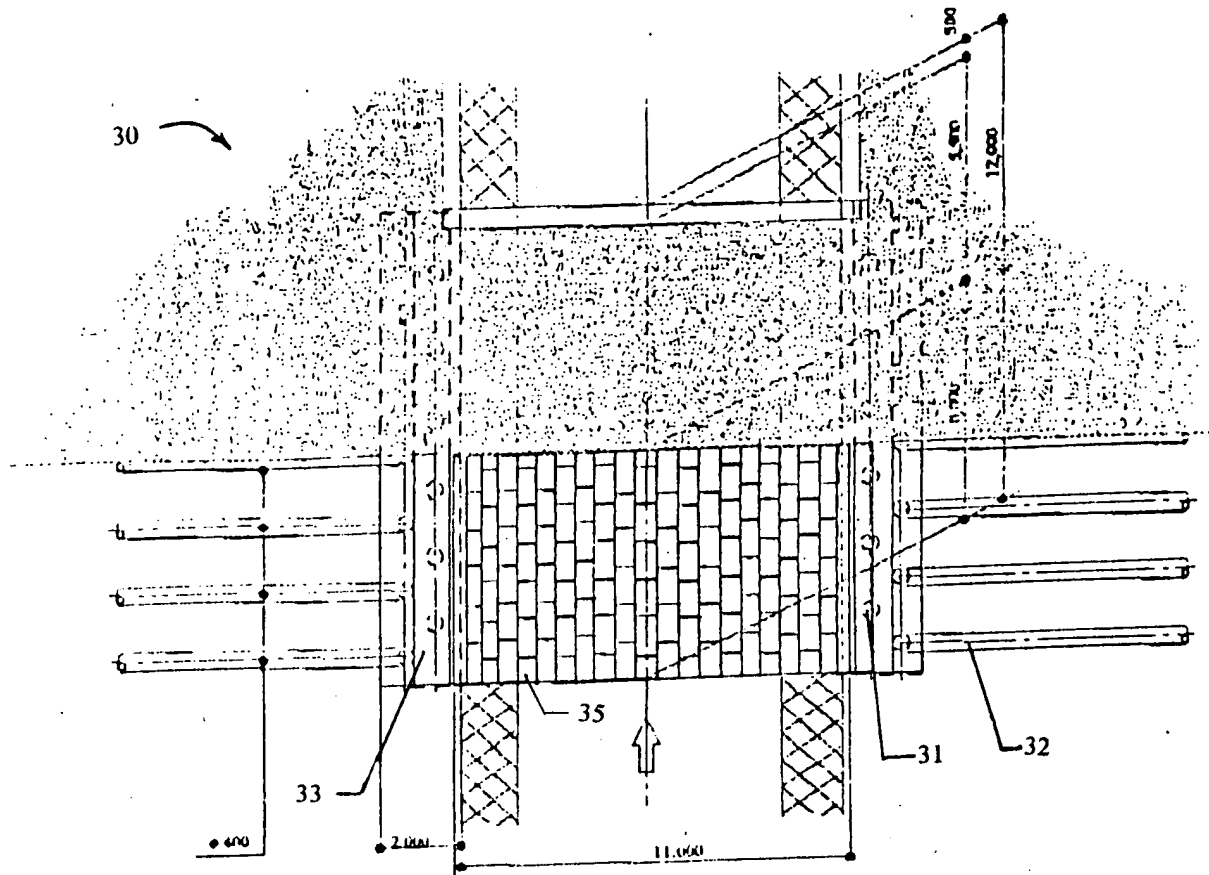


Fig. 3

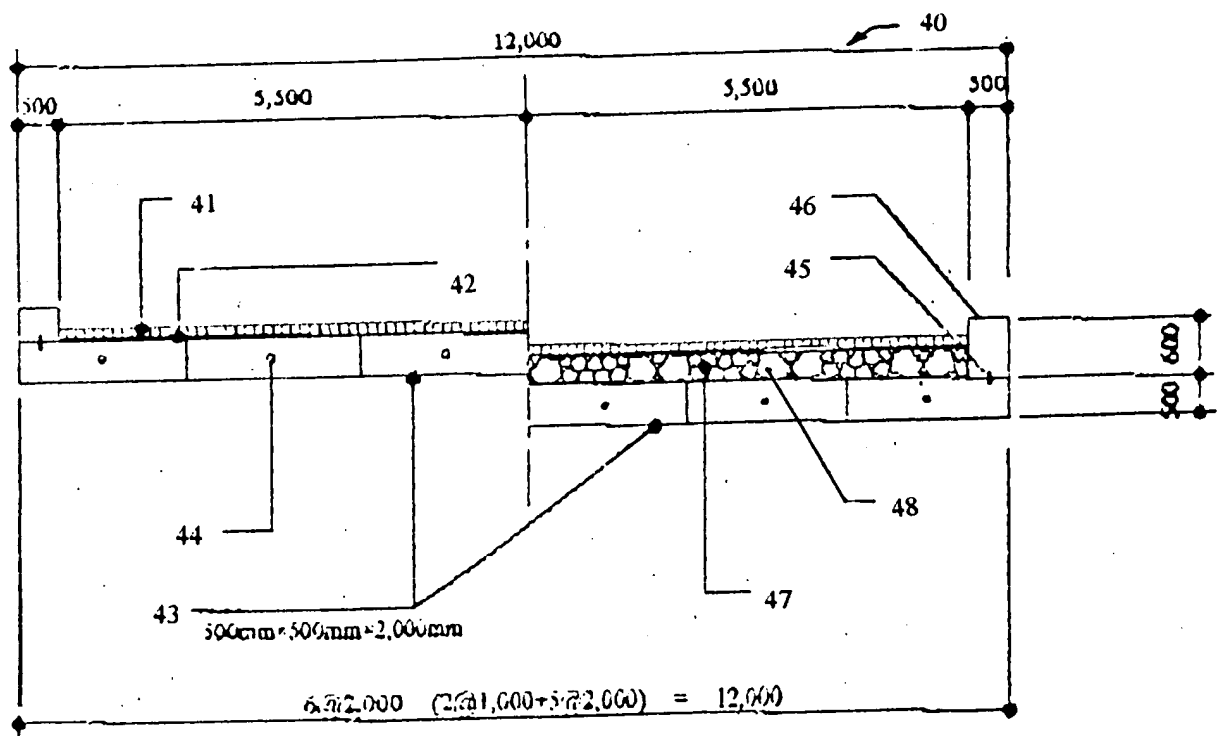


Fig. 4

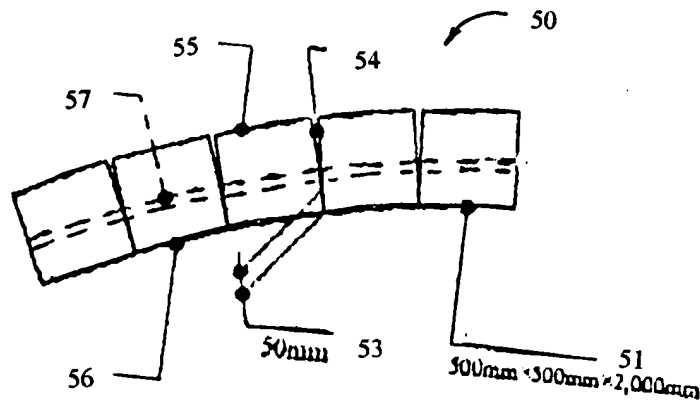


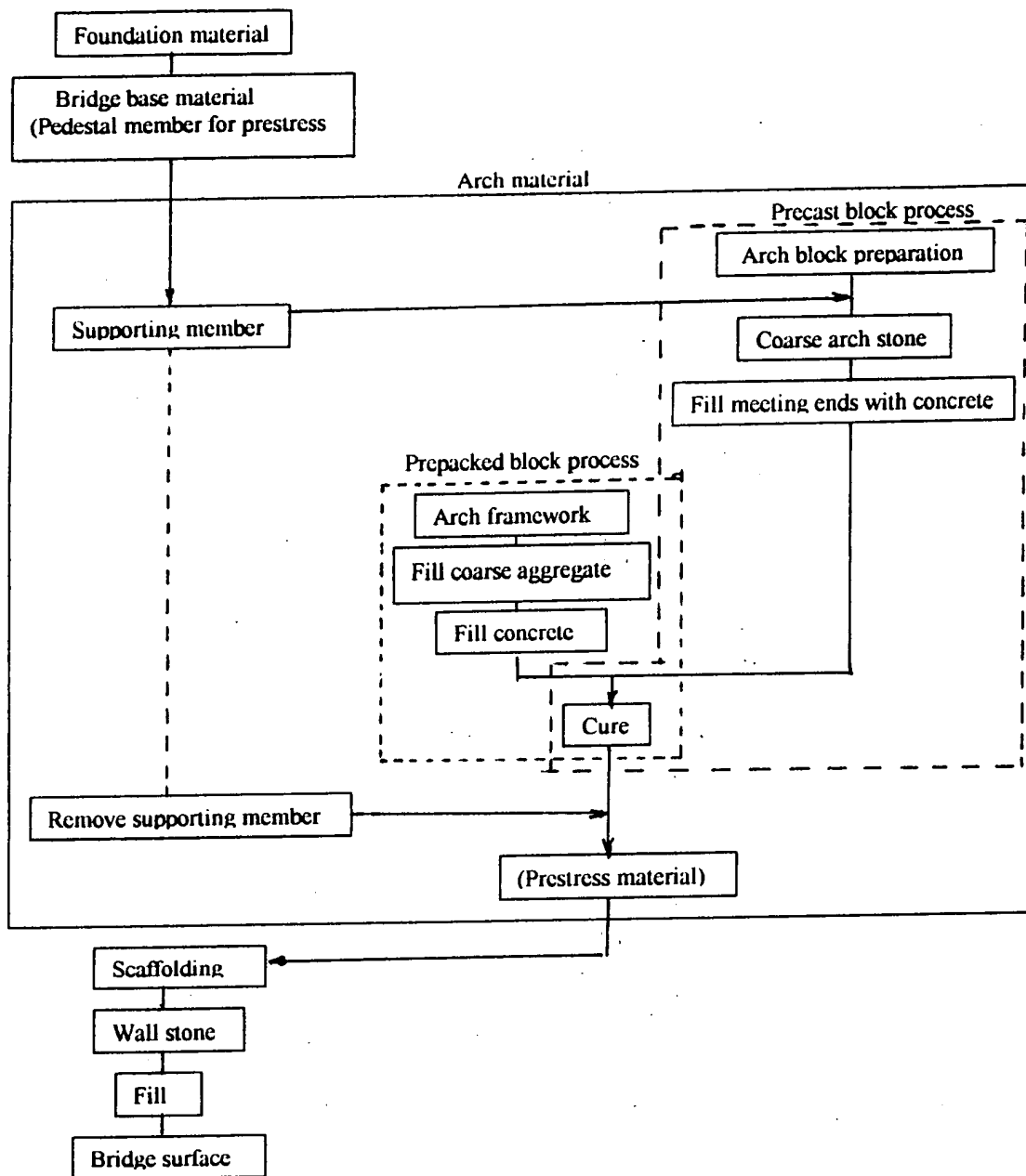
Fig. 5

Design condition

| | | |
|------------------------------------|-----------|--|
| Bridge Type | | Road bridge (A live load) |
| Bridge length | | 11,500m |
| Bridge width | | 12,000m (useful width 11,000m) |
| Style of upper part | | constraint discrete material arch structure (stone arch) |
| Design model | | Individual elements analysis (normally, at live load, on earthquake in the bridge axis direction) and 3-D shell model (on earthquake in the direction orthogonal to the bridge axis direction) |
| Style of lower part and foundation | | Pit foundation (oblique pit 35°) |
| Shake | | Dynamic analysis |
| Material used | Arch | See the separate table. |
| | Prestress | To give the ability to restore separated meeting ends on abnormal load. |
| | Pavement | paving (curved stone paving) |
| | Pit | Pit ϕ 400 |

Fig. 6

SECRET



Construction job flowchart

Fig. 7

A diagram of a curved structure, possibly a spine or a series of segments, labeled 80. The structure is composed of several segments, each containing a dashed line. A dashed line labeled 85 extends from the left side of the structure. A vertical line labeled 82 passes through the center of the structure, with two circles labeled 84 at the points of intersection. A line labeled 81 points to a segment on the right, and a line labeled 83 points to a segment on the right.

Fig. 9